Time Management

in STEM

STEM professionals use timeline planning when planning out a project and when assigning people to tasks

Resource Management

in STEM

STEM professionals use resource management to make sure they have all the experimental equipment they need when they need it.

Problem Solving

in STEM

STEM professionals use problem solving to break down complex challenges, test different possible solutions, and use evidence to choose the best one.

Teamwork

in STEM

STEM professionals work in teams to plan investigations, combine their strengths, share findings, and support each other to achieve the best possible results.

Data Analysis

Examining information or test results to spot trends, patterns or differences to help you understand what is going on.

Pattern recognition

Looking for repeating sequences and noticing when things are following a rule.

Optimisation

Finding the most efficient way to solve a problem or perform a task.

Communication

Sharing ideas clearly through speaking, writing, or visual imagery.

Data Analysis

in STEM

STEM professionals use timeline planning when planning out a project and when assigning people to tasks.

Pattern recognition

in STEM

STEM professionals look for patterns in data and measurements to help explain how things work and to make predictions.

Optimisation

in STEM

STEM professionals optimise designs and processes to improve performance, reduce waste of energy and materials, or achieve better results.

Communication

in STEM

STEM professionals communicate using reports, diagrams, models, and presentations so others can understand their work and teams can work together more effectively.

Visual Design

Creating visuals that are clear, attractive, and easy to understand.

Resilience

Keeping going even when something is difficult or doesn't work the first time.

Following Procedures

Completing steps in the correct order to get consistent and reliable results.

Measurement

Using tools to find size, amount, weight, or time accurately.

Visual Design

in STEM

STEM professionals use visual design to create diagrams, models, and graphs that explain ideas and make results easy to interpret.

Resilience

in STEM

STEM professionals show resilience by repeating tests, improving designs, and learning from their results until they achieve reliable outcomes.

Following Procedures

in STEM

STEM professionals follow procedures to ensure that work is performed safely, accurately, and can be repeated by others.

Measurement

in STEM

STEM professionals take precise measurements to collect valid results and check whether a design or experiment works as expected.

Adaptability

Being able to modify plans when things change or when unexpected challenges appear.

Spatial Recognition

Understanding how shapes, objects, and spaces relate to each other, including being able to understand different ways of visualising places and spaces.

Critical Thinking

Making good decisions by assessing all the available information and considering how that information could impact the outcome.

Creativity

Using imagination to generate new ideas or approaches.

Adaptability

in STEM

STEM professionals adapt their methods, tools, or plans when new information arises or when experiments and tests don't go as expected.

Spatial Recognition

in STEM

STEM professionals use spatial recognition to interpret complex map data, create visual representations of environments, and consider how components fit or move within a system.

Critical Thinking

in STEM

STEM professionals use critical thinking to plan investigations, check the reliability of their results, and to understand the meaning of their results.

Creativity

in STEM

STEM professionals use their creativity to design innovative solutions, develop new technologies, and think beyond what already exists.

Research

Finding relevant information from different sources and working out what is useful and reliable.

Research

in STEM

STEM professionals research by gathering information, comparing different sources, and using evidence to understand a problem or guide their work.